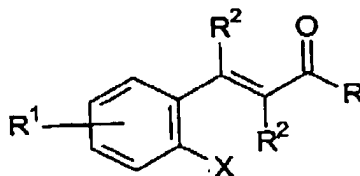


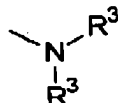
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# AMENDMENTS TO THE CLAIMS

1. (Canceled) A photo-labile pro-fragrance conjugate having the formula:

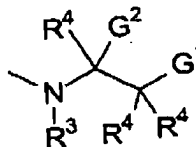


wherein R is a unit capable of releasing a fragrance raw material having the formula:



wherein each R<sup>3</sup> is independently hydrogen, substituted or unsubstituted C<sub>1</sub>-C<sub>30</sub> hydrocarbyl, and mixtures thereof;  
 each R<sup>1</sup> is independently hydrogen, a unit which can substitute for hydrogen, C<sub>1</sub>-C<sub>12</sub> substituted or unsubstituted hydrocarbyl unit;  
 each R<sup>2</sup> is independently hydrogen, C<sub>1</sub>-C<sub>12</sub> substituted or unsubstituted hydrocarbyl unit, and mixtures thereof;  
 X is selected from the group consisting of -OH, -OC(O)R<sup>12</sup>, -OC(O)OR<sup>12</sup>, -NHR<sup>12</sup>, and mixtures thereof; and  
 R<sup>12</sup> is H, C<sub>1</sub>-C<sub>12</sub> substituted or unsubstituted alkyl, and mixtures thereof.

2. (Canceled) A conjugate according to Claim 1 wherein R has the formula:



wherein each R<sup>4</sup> is independently selected from the group consisting of:

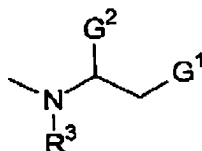
- hydrogen;
- C<sub>1</sub>-C<sub>22</sub> substituted or unsubstituted, branched or unbranched alkyl;
- C<sub>2</sub>-C<sub>22</sub> substituted or unsubstituted, branched or unbranched alkenyl;
- C<sub>2</sub>-C<sub>20</sub> substituted or unsubstituted, branched or unbranched hydroxyalkyl;

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- v) C<sub>7</sub>-C<sub>20</sub> substituted or unsubstituted alkylenearyl;
  - vi) C<sub>3</sub>-C<sub>20</sub> substituted or unsubstituted cycloalkyl;
  - vii) C<sub>6</sub>-C<sub>20</sub> aryl;
  - viii) C<sub>5</sub>-C<sub>20</sub> heteroaryl units comprising one or more heteroatoms selected from the group consisting of nitrogen, oxygen, sulfur, and mixtures thereof;
  - ix) two R<sup>4</sup> units can be taken together to form one or more aromatic or non-aromatic, heterocyclic or non-heterocyclic, single rings, fused rings, bicyclo rings, spiroannulated rings, or mixtures thereof, said rings comprising from 3 to 20 carbon atoms and one or more heteroatoms selected from the group consisting of nitrogen, oxygen, sulfur, and mixtures thereof;
  - x) and mixtures thereof;
- G<sup>1</sup> and G<sup>2</sup> are each independently hydrogen, C<sub>1</sub>-C<sub>20</sub> linear or branched hydrocarbyl, -Y, -C(O)Y, and mixtures thereof; Y is C<sub>6</sub>-C<sub>10</sub> substituted or unsubstituted cyclic alkyl).

3. (Canceled) A conjugate according to Claim 2 wherein Y is selected from the group consisting of 2,6,6-trimethylcyclohex-2-enyl, 2,6,6-trimethylcyclohex-1-enyl, 2,6,6-trimethylcyclohex-1-enyl, 2,6,6-trimethylcyclohex-3-enyl, and mixtures thereof.

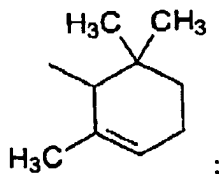
4. (Withdrawn) A conjugate according to Claim 1 wherein R has the formula:



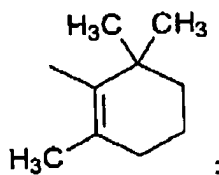
wherein G<sup>1</sup> and G<sup>2</sup> are each independently -CH<sub>3</sub>, -C(O)CH<sub>3</sub>, -Y, -C(O)Y, and mixtures thereof; Y is selected from the group consisting of:

- i) 2,6,6-trimethylcyclohex-2-enyl having the formula:

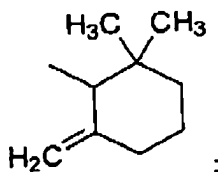
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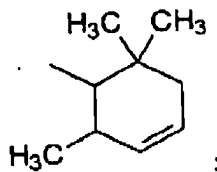
- ii) 2,6,6-trimethylcyclohex-1-enyl having the formula:



- iii) 2,6,6-trimethylcyclohex-1-enyl having the formula:



- iv) 2,6,6-trimethylcyclohex-3-enyl having the formula:



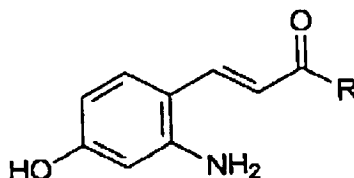
- v) and mixtures thereof.

5. (Canceled) A conjugate according to Claim 1 wherein X is -OH.

6. (Canceled) A conjugate according to Claim 1 wherein R<sup>1</sup> is hydrogen.

7. (Withdrawn) A conjugate according to Claim 1 wherein said conjugate has the formula:

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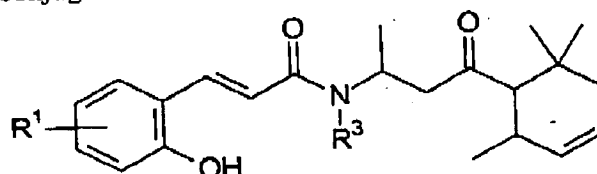


8. (Canceled) A conjugate according to Claim 1 wherein said  $R^1$  is one or more electron donating groups selected from the group consisting of hydroxy,  $C_1$ - $C_{12}$  linear or branched alkoxy,  $-N(R^{12})_2$ , and mixtures thereof;  $R^{12}$  is H,  $C_1$ - $C_{12}$  alkyl, and mixtures thereof.

9. (Canceled) A conjugate according to Claim 8 wherein X is hydroxy.

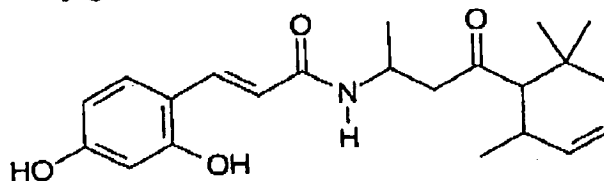
10. (Canceled) A conjugate according to Claim 1 wherein  $R^2$  are each hydrogen.

11. (Withdrawn) A conjugate according to Claim 1 having the formula:



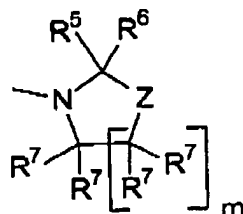
wherein  $R^1$  is hydrogen, hydroxyl, and mixtures thereof.

12. (Withdrawn) A conjugate according to Claim 15 having the formula:



13. (Withdrawn) A conjugate according to Claim 1 wherein R has the formula:

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wherein Z is oxygen or sulfur; m is from 1 to 3;

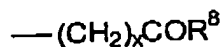
R<sup>5</sup> units are selected from:

- C<sub>6</sub>-C<sub>22</sub> substituted or unsubstituted linear alkyl
- C<sub>6</sub>-C<sub>22</sub> substituted or unsubstituted branched alkyl;
- C<sub>6</sub>-C<sub>22</sub> substituted or unsubstituted linear alkenyl;
- C<sub>6</sub>-C<sub>22</sub> substituted or unsubstituted branched alkenyl;
- C<sub>6</sub>-C<sub>22</sub> substituted or unsubstituted cycloalkyl;
- C<sub>6</sub>-C<sub>22</sub> substituted or unsubstituted branched cycloalkyl;
- C<sub>6</sub>-C<sub>22</sub> substituted or unsubstituted cycloalkenyl;
- C<sub>6</sub>-C<sub>22</sub> substituted or unsubstituted branched cycloalkenyl;
- C<sub>6</sub>-C<sub>22</sub> substituted or unsubstituted aryl;
- C<sub>6</sub>-C<sub>22</sub> substituted or unsubstituted heterocyclicalkyl;
- C<sub>6</sub>-C<sub>22</sub> substituted or unsubstituted heterocyclicalkenyl;
- and mixtures thereof;

R<sup>6</sup> units comprise hydrogen or R<sup>5</sup>;

R<sup>7</sup> is independently selected from the group consisting of:

- R<sup>6</sup>;
- hydroxyl;
- a carbonyl comprising unit having the formula:



wherein R<sup>8</sup> is:

- OH;
- OR<sup>9</sup> wherein R<sup>9</sup> is hydrogen, C<sub>1</sub>-C<sub>15</sub> substituted linear alkyl, C<sub>11</sub>-C<sub>15</sub> unsubstituted linear alkyl, C<sub>1</sub>-C<sub>15</sub> substituted branched alkyl, C<sub>11</sub>-C<sub>15</sub> unsubstituted branched alkyl, C<sub>2</sub>-C<sub>22</sub> substituted or

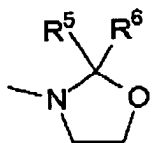
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- unsubstituted linear alkenyl, C<sub>3</sub>-C<sub>22</sub> substituted or unsubstituted branched alkenyl, or mixtures thereof,
- iii) -N(R<sup>10</sup>)<sub>2</sub> wherein R<sup>10</sup> is hydrogen, C<sub>1</sub>-C<sub>6</sub> substituted or unsubstituted linear alkyl, C<sub>3</sub>-C<sub>6</sub> substituted or unsubstituted branched alkyl, or mixtures thereof;
- iv) C<sub>1</sub>-C<sub>22</sub> substituted or unsubstituted linear alkyl;
- v) C<sub>1</sub>-C<sub>22</sub> substituted or unsubstituted branched alkyl;
- vi) C<sub>2</sub>-C<sub>22</sub> substituted or unsubstituted linear alkenyl;
- vii) C<sub>3</sub>-C<sub>22</sub> substituted or unsubstituted branched alkenyl;
- viii) C<sub>3</sub>-C<sub>22</sub> substituted or unsubstituted cycloalkyl;
- ix) C<sub>6</sub>-C<sub>22</sub> substituted or unsubstituted aryl;
- x) C<sub>6</sub>-C<sub>22</sub> substituted or unsubstituted heterocyclicalkyl;
- xi) C<sub>6</sub>-C<sub>22</sub> substituted or unsubstituted heterocyclicalkenyl;
- the index x is from 0 to 22;
- d) alkyleneoxy units having the formula:
- $$-[\text{C}(\text{R}^{11})_2]_y[\text{C}(\text{R}^{11})_2\text{C}(\text{R}^{11})_2\text{O}]_z\text{R}^{11}$$
- wherein each R<sup>11</sup> is independently;
- i) hydrogen;
- ii) -OH;
- iii) C<sub>1</sub>-C<sub>4</sub> alkyl;
- iv) or mixtures thereof;
- two R<sup>11</sup> units can be taken together to form a C<sub>3</sub>-C<sub>6</sub> spiroannulated ring, carbonyl unit, or mixtures thereof; y has the value from 0 to 10, z has the value from 1 to 50;
- e) and mixtures thereof;
- any two R<sup>7</sup> units can be taken together to form:
- i) a carbonyl moiety;
- ii) a C<sub>3</sub>-C<sub>6</sub> spiroannulated ring;
- iii) a heterocyclic aromatic ring comprising from 5 to 7 atoms;
- iv) a non-heterocyclic aromatic ring comprising from 5 to 7 atoms;
- v) a heterocyclic ring comprising from 5 to 7 atoms;

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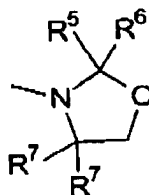
- vi) a non-heterocyclic ring comprising from 5 to 7 atoms;
- vii) or mixtures thereof.

14. (Withdrawn) A compound according to Claim 13 wherein R has the formula:



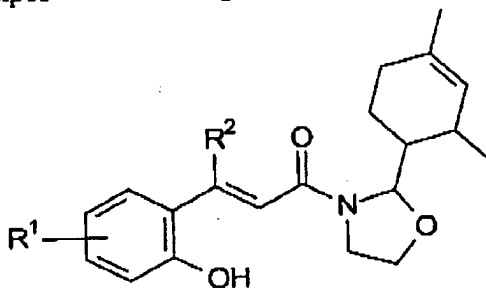
wherein R<sup>6</sup> is selected from the group consisting of hydrogen and methyl.

15. (Withdrawn) A compound according to Claim 13 wherein R has the formula:



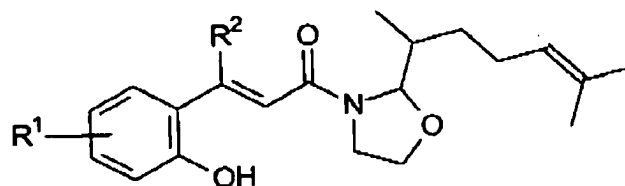
wherein R<sup>6</sup> is selected from the group consisting of hydrogen and methyl; each R<sup>7</sup> is independently hydrogen, methyl or -C(O)OR<sup>9</sup>, and mixtures thereof; R<sup>9</sup> is hydrogen, C<sub>1</sub>-C<sub>12</sub> alkyl, and mixtures thereof.

16. (Withdrawn) A composition according to Claim 13 having the formula:

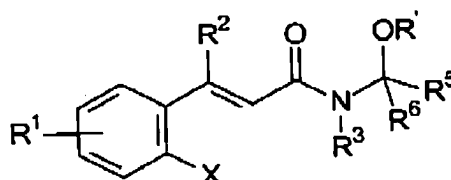


17. (Withdrawn) A composition according to Claim 13 having the formula:

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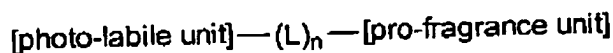


18. (Withdrawn) A compound according to Claim 11 having the formula:



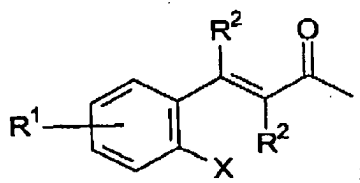
wherein R' is derived from an alcohol having the formula R'OH.

19. (Currently Amended) A photo-labile pro-fragrance conjugate having the formula:

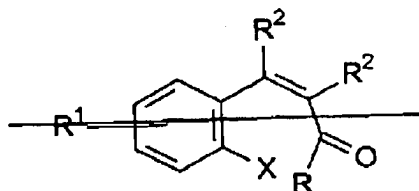


wherein said [photo-labile unit] is selected from the group consisting of:

i)

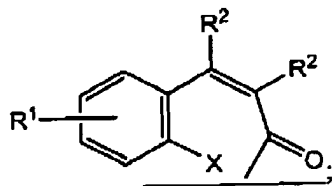


ii)

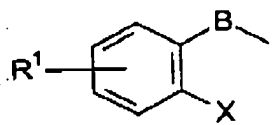




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iii)



wherein each  $R^1$  is independently hydrogen, a unit which can substitute for hydrogen,  $C_1$ - $C_{12}$  substituted or unsubstituted hydrocarbyl unit; said units which can substitute for hydrogen are selected from the group consisting of;

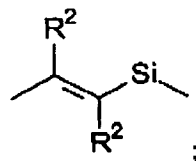
- i)  $-NHCOR^{30}$ ;
- ii)  $-COR^{30}$ ;
- iii)  $-COOR^{30}$ ;
- iv)  $-COCH=CH_2$ ;
- v)  $-C(=NH)NH_2$ ;
- vi)  $-N(R^{30})_2$ ;
- vii)  $-NHC_6H_5$ ;
- viii)  $=CHC_6H_5$ ;
- ix)  $-CON(R^{30})_2$ ;
- x)  $-CONHNH_2$ ;
- xi)  $-NHCN$ ;
- xii)  $-OCN$ ;
- xiii)  $-CN$ ;
- xiv) F, Cl, Br, I, and mixtures thereof;
- xv)  $=O$ ;
- xvi)  $-OR^{30}$ ;
- xvii)  $-NHCHO$ ;
- xviii)  $-OH$ ;
- xix)  $-NHN(R^{30})_2$ ;
- xx)  $=NR^{30}$ ;

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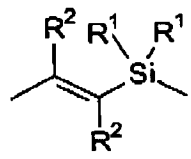
- xxi)  $=\text{NOR}^{30}$ ;
- xxii)  $-\text{NHOR}^{30}$ ;
- xxiii)  $-\text{CNO}$ ;
- xxiv)  $-\text{NCS}$ ;
- xxv)  $=\text{C}(\text{R}^{30})_2$ ;
- xxvi)  $-\text{SO}_3\text{M}$ ;
- xxvii)  $-\text{OSO}_3\text{M}$ ;
- xxviii)  $-\text{SCN}$ ;
- xxix)  $-\text{P}(\text{O})\text{H}_2$ ;
- xxx)  $-\text{PO}_2$ ;
- xxxi)  $-\text{P}(\text{O})(\text{OH})_2$ ;
- xxxii)  $-\text{SO}_2\text{NH}_2$ ;
- xxxiii)  $-\text{SO}_2\text{R}^{30}$ ;
- xxxiv)  $-\text{NO}_2$ ;
- xxxv)  $-\text{CF}_3$ ,  $-\text{CCl}_3$ ,  $-\text{CBr}_3$ ;
- xxxvi) and mixtures thereof;

wherein  $\text{R}^{30}$  is hydrogen,  $\text{C}_1$ - $\text{C}_{20}$  linear or branched alkyl,  $\text{C}_6$ - $\text{C}_{20}$  aryl,  $\text{C}_7$ - $\text{C}_{20}$  alkylenearyl, and mixtures thereof; M is hydrogen, or a salt forming cation; each  $\text{R}^2$  is independently hydrogen,  $\text{C}_1$ - $\text{C}_{12}$  alkyl, and mixtures thereof; X is selected from the group consisting of  $-\text{OH}$ ,  $-\text{NHR}^{13}$ , and mixtures thereof;  $\text{R}^{12}$  is H,  $\text{C}_1$ - $\text{C}_{12}$  alkyl, and mixtures thereof; B is selected from the group consisting of:

i)



ii)



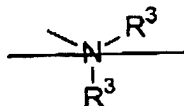
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iii)

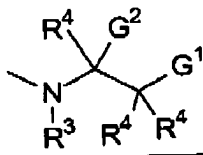


L units are  $-\text{OC}(\text{O})-$ ,  $-\text{NR}^3\text{C}(\text{O})-$ ,  $-\text{OC}(\text{R}^3\text{R}^4)-$ ,  $-\text{C}(\text{O})-$ , and mixtures thereof; n is 0 or 1;

the [pro-fragrance unit] has the formula:



wherein each  $\text{R}^3$  is independently hydrogen, substituted or unsubstituted  $\text{C}_1$ - $\text{C}_{30}$  hydrocarbyl, and mixtures thereof



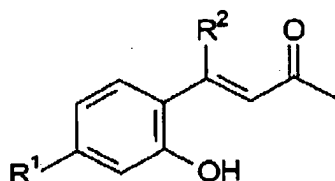
wherein each  $\text{R}^4$  is independently selected from the group consisting of:

- i) hydrogen;
- ii)  $\text{C}_1$ - $\text{C}_{32}$  substituted or unsubstituted, branched or unbranched alkyl;
- iii)  $\text{C}_2$ - $\text{C}_{22}$  substituted or unsubstituted, branched or unbranched alkenyl;
- iv)  $\text{C}_2$ - $\text{C}_{20}$  substituted or unsubstituted, branched or unbranched hydroxyalkyl;
- v)  $\text{C}_7$ - $\text{C}_{20}$  substituted or unsubstituted alkylenearyl;
- vi)  $\text{C}_3$ - $\text{C}_{20}$  substituted or unsubstituted cycloalkyl;
- vii)  $\text{C}_6$ - $\text{C}_{20}$  aryl;
- viii)  $\text{C}_5$ - $\text{C}_{20}$  heteroaryl units comprising one or more heteroatoms selected from the group consisting of nitrogen, oxygen, sulfur, and mixtures thereof;
- ix) two  $\text{R}^4$  units can be taken together to form one or more aromatic or non-aromatic, heterocyclic or non-heterocyclic, single rings, fused rings, bicyclo rings, spiroannulated rings, or mixtures thereof, said rings comprising from 3 to 20 carbon atoms and one or more heteroatoms selected from the group consisting of nitrogen, oxygen, sulfur, and mixtures thereof;
- x) and mixtures thereof;

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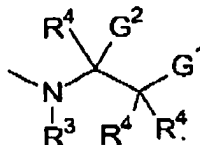
G<sup>1</sup> and G<sup>2</sup> are each independently hydrogen, C<sub>1</sub>-C<sub>20</sub> linear or branched hydrocarbyl, -Y, -C(O)Y, and mixtures thereof; Y is selected from the group consisting of 2,6,6-trimethylcyclohex-2-enyl, 2,6,6-trimethylcyclohex-1-enyl, 2,6,6-trimethylcyclohex-1-enyl, 2,6,6-trimethylcyclohex-3-enyl, and mixtures thereof.

20. (Previously presented) A compound according to Claim 19 wherein said [photo-labile unit] has the formula:



wherein R<sup>1</sup> is hydrogen, hydroxyl, and mixtures thereof.

21. (Canceled) A compound according to Claim 19 wherein said [pro-fragrance unit] has the formula:



wherein each R<sup>4</sup> is independently selected from the group consisting of:

- i) hydrogen;
- ii) C<sub>1</sub>-C<sub>22</sub> substituted or unsubstituted, branched or unbranched alkyl;
- iii) C<sub>2</sub>-C<sub>22</sub> substituted or unsubstituted, branched or unbranched alkenyl;
- iv) C<sub>2</sub>-C<sub>20</sub> substituted or unsubstituted, branched or unbranched hydroxyalkyl;
- v) C<sub>7</sub>-C<sub>20</sub> substituted or unsubstituted alkylenearyl;
- vi) C<sub>3</sub>-C<sub>20</sub> substituted or unsubstituted cycloalkyl;
- vii) C<sub>6</sub>-C<sub>20</sub> aryl;
- viii) C<sub>5</sub>-C<sub>20</sub> heteroaryl units comprising one or more heteroatoms selected from the group consisting of nitrogen, oxygen, sulfur, and mixtures thereof;
- ix) two R<sup>4</sup> units can be taken together to form one or more aromatic or non-aromatic, heterocyclic or non-heterocyclic, single rings, fused rings,

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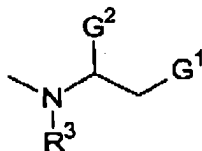
bicyclo rings, spiroannulated rings, or mixtures thereof, said rings comprising from 3 to 20 carbon atoms and one or more heteroatoms selected from the group consisting of nitrogen, oxygen, sulfur, and mixtures thereof;

x) and mixtures thereof;

$G^1$  and  $G^2$  are each independently hydrogen,  $C_1$ - $C_{20}$  linear or branched hydrocarbyl,  $-Y$ ,  $-C(O)Y$ , and mixtures thereof;  $Y$  is  $C_6$ - $C_{10}$  substituted or unsubstituted cyclic alkyl.

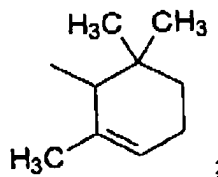
22. (Canceled) A compound according to Claim 21 wherein  $Y$  is selected from the group consisting of 2,6,6-trimethylcyclohex-2-enyl, 2,6,6-trimethylcyclohex-1-enyl, 2,6,6-trimethylcyclohex-1-enyl, 2,6,6-trimethylcyclohex-3-enyl, and mixtures thereof.

23. (Withdrawn) A compound according to Claim 19 wherein said [pro-fragrance unit] has the formula:



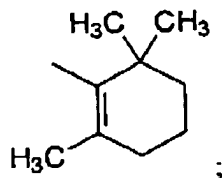
wherein  $G^1$  and  $G^2$  are each independently  $-CH_3$ ,  $-C(O)CH_3$ ,  $-Y$ ,  $-C(O)Y$ , and mixtures thereof;  $Y$  is selected from the group consisting of:

i) 2,6,6-trimethylcyclohex-2-enyl having the formula:

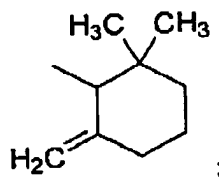


ii) 2,6,6-trimethylcyclohex-1-enyl having the formula:

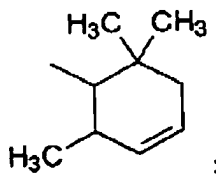
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- iii) 2,6,6-trimethylcyclohex-1-enyl having the formula:



- iv) 2,6,6-trimethylcyclohex-3-enyl having the formula:



- v) and mixtures thereof.

24. (Canceled) A photo-labile pro-fragrance conjugate delivery system comprising:

- A) from about 0.001% by weight, of a photo-activated pro-fragrance conjugate according to Claim 1; and
- B) the balance carriers and adjunct ingredients.

25. (Currently Amended) A laundry detergent comprising:

- A) from about 0.001% by weight, of a photo-activated pro-fragrance conjugate according to Claim 19 ~~Claim 1~~;
- B) from about 10% by weight, of a deterative surfactant; and
- C) the balance carriers and adjunct ingredients.

26. (Canceled)

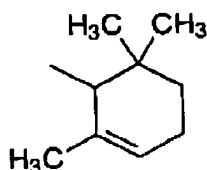
A perfume or fine fragrance comprising:

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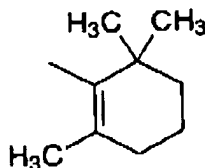
- A) from about 0.001% by weight, of a photo-activated pro-fragrance conjugate according to Claim 1;
  - B) from about 0.01% to about 99% by weight, of an admixture of fragrance raw materials; and
  - C) the balance carriers and adjunct ingredients.
27. (Canceled) A hair shampoo or conditioner comprising:
- A) from about 0.001% by weight, of a photo-activated pro-fragrance conjugate according to Claim 1;
  - B) from about 0.01% to about 5% by weight, of an admixture of fragrance raw materials; and
  - C) the balance carriers and adjunct ingredients.
28. (New) A conjugate according to Claim 19 wherein  $R^1$  is hydrogen.
29. (New) A conjugate according to Claim 19 wherein said  $R^1$  is one or more electron donating groups selected from the group consisting of hydroxy,  $C_1$ - $C_{12}$  linear or branched alkoxy,  $-N(R^{12})_2$ , and mixtures thereof;  $R^{12}$  is H,  $C_1$ - $C_{12}$  alkyl, and mixtures thereof.
30. (New) A conjugate according to Claim 29 wherein said  $R^1$  is hydroxy.
31. (New) A conjugate according to Claim 29 wherein said  $R^1$  is  $-N(CH_3)_2$ .
32. (New) A conjugate according to Claim 19 wherein  $R^2$  are each hydrogen.
33. (New) A conjugate according to Claim 19 wherein  $R^3$  is hydrogen, each  $R^4$  is hydrogen,  $G^2$  is methyl,  $G^1$  is  $-C(O)Y$ ; Y is selected from the group consisting of 2,6,6-trimethylcyclohex-2-enyl, 2,6,6-trimethylcyclohex-1-enyl, 2,6,6-trimethylcyclohex-1-enyl, 2,6,6-trimethylcyclohex-3-enyl, and mixtures thereof.

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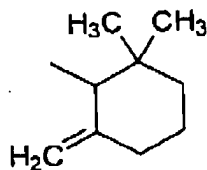
34. (New) A conjugate according to Claim 33 wherein Y is 2,6,6-trimethylcyclohex-2-enyl having the formula:



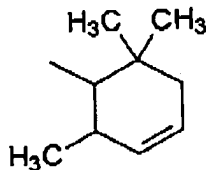
35. (New) A conjugate according to Claim 33 wherein Y is 2,6,6-trimethylcyclohex-1-enyl having the formula:



36. (New) A conjugate according to Claim 33 wherein Y is 2,6,6-trimethylcyclohex-1-enyl having the formula:



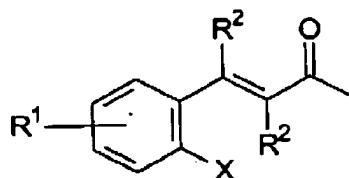
37. (New) A conjugate according to Claim 33 wherein Y is 2,6,6-trimethylcyclohex-3-enyl having the formula:



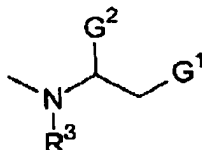
38. (New) A conjugate according to Claim 19 wherein said [photo-labile unit] has the formula:



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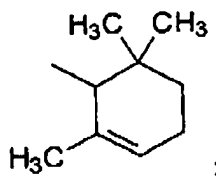


the index n is equal to 0, said [pro-fragrance unit] has the formula:

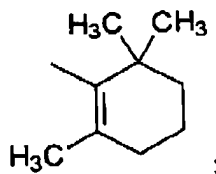


$G^2$  is  $-CH_3$ ,  $G^1$  is  $-C(O)Y$ ; Y is selected from the group consisting of:

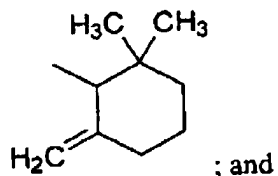
- i) 2,6,6-trimethylcyclohex-2-enyl having the formula:



- ii) 2,6,6-trimethylcyclohex-1-enyl having the formula:

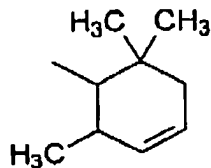


- iii) 2,6,6-trimethylcyclohex-1-enyl having the formula:



- iv) 2,6,6-trimethylcyclohex-3-enyl having the formula:

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39. (New) A conjugate according to Claim 38 wherein said  $R^1$  is hydroxy.
40. (New) A conjugate according to Claim 38 wherein said  $R^1$  is  $-N(CH_3)_2$ .
41. (New) A conjugate according to Claim 38 wherein  $R^2$  are each hydrogen.